

IN THE ABSTRACT OF THE DISCLOSURE:

Page 36, line 2, change "Disclosed is here a" to
--A--;
line 3, change "to be" to --is--;
line 5, after "operation" (first occurrence) insert a
comma;
line 6, after "mode" (third occurrence) insert a
comma;
line 7, change "achieving a" to --to provide--;
line 8, change "A serial" to --Serial--;
line 10, cancel "a".

REMARKS

The Office Action objects that the title of the application is not descriptive and requires a more descriptive title. The title has been amended to be more descriptive.

The Office Action acknowledges the claim for priority but notes that the certified copy of the priority application has not been filed. The certified copy is being filed of even date herewith.

The Office Action states that the Japanese Patent Publications submitted under 35 U.S.C. §1.56(a) have been considered to the best of the Examiner's understanding but requests English language translations. As indicated on the Information Disclosure Sheet, neither applicants nor the Japanese patent firm through whom the undersigned attorneys correspond with applicants have English translations, and the undersigned firm does not have English translations either.

It is noted, however, that an error exists on the Information Disclosure Sheet in the identification of those citations, and this error was carried over onto the Notice of References Cited (Form PTO-892) attached to the Office Action. As correctly set forth in the specification, the three Japanese references are Japanese Patent Publication JP-A-60-136793, (incorrectly identified on the Information Disclosure Sheet as JP-A-60-136798), JP-A-60-225888 (correctly identified on the Information Disclosure Sheet), and JP-A-55-129387 (incorrectly identified on the Information Disclosure Sheet as JP-A-60-129387). The incorrect numbers from the Information Disclosure Sheet were carried over to the Notice of References Cited. This error on the Information Disclosure Sheet is regretted. It is requested that a Notice of References Cited giving the correct identifications be issued.

The Japanese patent firm through whom the undersigned attorneys correspond with applicants has stated that it is difficult to correctly present the inventors' names from these Japanese Patent Publications in Arabic letters, but they might be translated as: JP-A-60-136793 -- Katsura, Maejima and Kajiwara, JP-A-60-225888 -- Tanaka and Kariya, and JP-A-55-129387 -- Suenaga.

The Office Action points out that a request for a corrected filing receipt was filed stating that the original filing receipt incorrectly gave the number of claims as 35 instead of 36, but that only seven claims were filed. The Office Action is correct in this respect. The Request For Corrected Filing Receipt should have stated out that the original filing

receipt incorrectly gives the number of sheets of drawings as 35, whereas in fact there are 36. This error is regretted. Another Request For Corrected Filing Receipt is being submitted of even date herewith.

The Office Action objects to the abstract as not meeting the requirements. The abstract has been amended to overcome this.

The Office Action also requests that the entire specification be checked for compliance with 37 C.F.R. §1.52(a) and (b). The specification has been extensively amended to assure compliance with those sections, as well as to assure idiomatic and grammatical English.

The Office Action requires that each acronym be defined at the first instance of its usage. This has been done in the amendments to the specification.

The claims were rejected under 35 U.S.C. §112, second paragraph, as being indefinite. Original claims 1-7 have been cancelled and replaced by claims 8-15 which comply with this statute section.

The claims were rejected under 35 U.S.C. §103 as being unpatentable over Pinkham, United States Patent No. 4,796,231. This rejection is traversed, and reconsideration is requested. Applicants' invention, as described by the claims, is neither shown nor suggested by Pinkham or any other reference, whether the references be considered one at a time or in combination.

Pinkham shows a dual port video memory including shift registers. The shift registers can be controlled either to cascade data or to circulate data. Thus, a serial port is

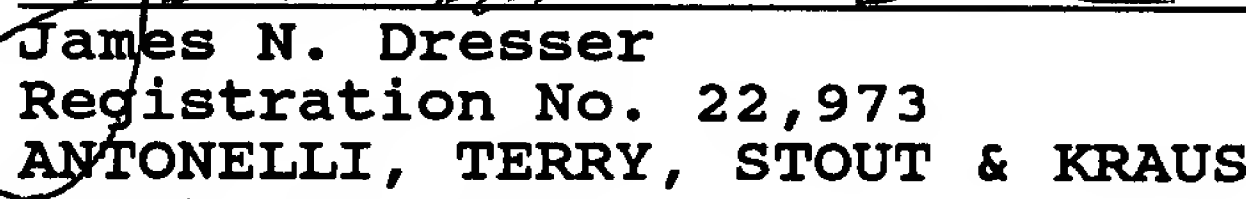
provided in Pinkham's memory in addition to a port for random access. Internal shift registers convert parallel accessed data into serial data.

In the present invention a standard single port memory can be used. The same port of the memory is utilized whether a display operation or a drawing operation is undertaken, the type of operation being controlled by the Memory Interface and Video Attribute Controller (MIVAC). Pinkham does not disclose or suggest such control.

Another feature of the invention resides in being able to use a smaller number of lines between a memory and the memory controller than are utilized between the data processor and the memory controller. Pinkham does not show or suggest this.

It is accordingly submitted that the claimed subject matter is neither shown nor suggested by Pinkham or by any of the other references and that the claims are allowable. Thus, it is submitted that the application is in condition for allowance.

Respectfully submitted,



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JND:mg